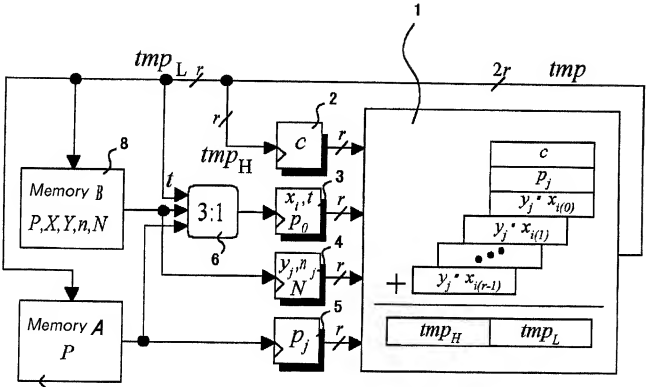


$$tmp \leftarrow p_j + x_i \cdot y_j + c$$
$$tmp \leftarrow p_j + t \cdot n_j + c$$
$$tmp \leftarrow p_0 \cdot N$$

Fig. 1

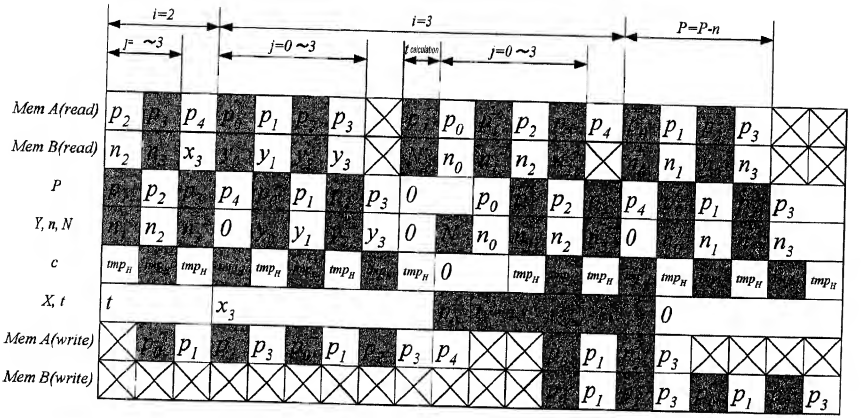

i=2
i=3
P=P-n
j=0 ~3
j=0 ~3
j=0 ~3
Mem A(read)
Mem B(read)
P
Y, n, N
c
X, t
Mem A(write)
Mem B(write)

Fig. 2

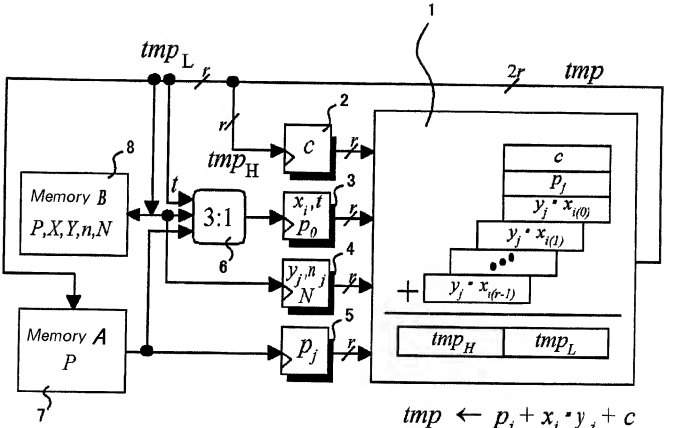

1
tmp_L
r
2r
tmp
r
tmp_H
c
2
8
Memory B
P,X,Y,n,N
t
3:1
6
x_i,t
p_0
3
y_j,n_j
N
4
p_j
5
Memory A
P
7
c
p_j
y_j · x_i(0)
y_j · x_i(1)
y_j · x_i(r-1)
tmp_H
tmp_L
tmp ← p_j + x_i · y_j + c
tmp ← p_j + t · n_j + c
tmp ← p_0 · N

Fig. 3

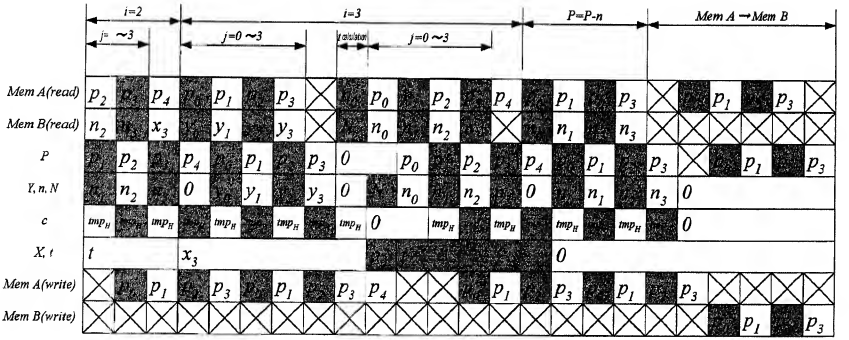
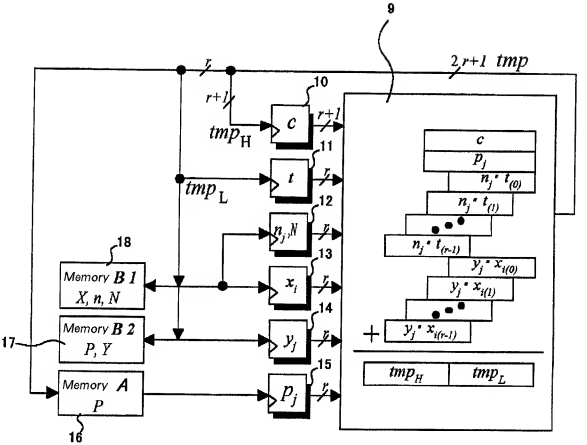

i=2
i=3
P=P-n
Mem A →Mem B
j=0 ~3
j=0 ~3
Mem A(read)
Mem B(read)
P
Y, n, N
c
X, t
Mem A(write)
Mem B(write)

Fig. 4



$$tmp \leftarrow p_j + x_i * y_j + t * n_j + c$$
$$tmp \leftarrow t * N$$

Fig. 5

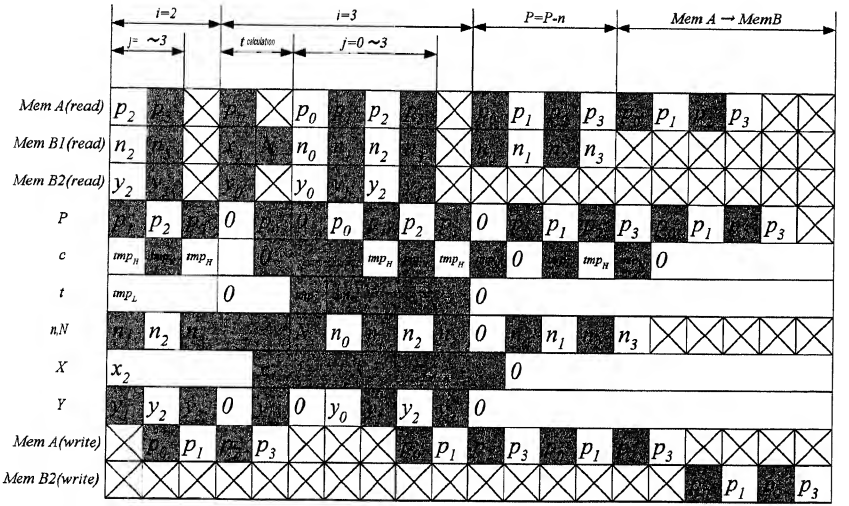
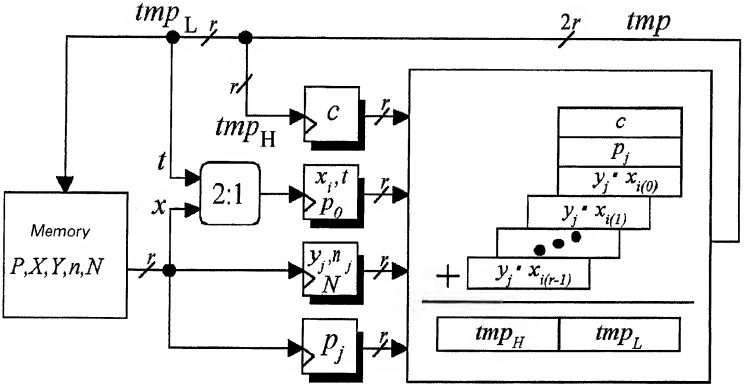

i=2
i=3
P=P-n
Mem A → MemB
j= ~3
t calculation
j=0 ~3
Mem A(read)
Mem B1(read)
Mem B2(read)
P
c
t
n,N
X
Y
Mem A(write)
Mem B2(write)

Fig. 6



$$tmp \leftarrow p_j + x_i * y_j + c$$
$$tmp \leftarrow p_j + t * n_j + c$$
$$tmp \leftarrow p_0 * N$$

Fig. 7

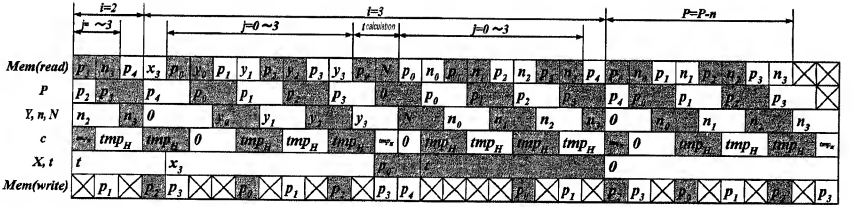


Fig. 8